

**CLAIMS**

1. A circuit for calculating a discriminating function with successive iterations and with a work register on data divided into blocks, comprising:
  - a single operator (2) in wired logic for executing the function;
  - 5 a plurality of work registers (3) sharing said operator, each register storing a current state of the operator and the rank of the corresponding iteration; and
  - an element (4) for selecting one of the work registers to be associated with the operator.
- 10 2. The circuit of claim 1, wherein said function is a Hash function.
3. The calculation circuit of claim 1, wherein a multiplexer (4) forming the selection element is controlled by a priority decoder associated with an integrated processor containing said calculation circuit.